

CLAIMS

I claim:

1 1. A piston-cylinder assembly having a speed-dependent damping force, said
2 assembly comprising
3 a cylinder having an axis,
4 a piston rod which is axially movable in said cylinder,
5 a piston fixed to said piston rod , said piston dividing said cylinder into a working
6 space surrounding said piston rod and a working space remote from said piston rod, said working
7 spaces being filled with a damping medium, said piston having at least one flow passage
8 connecting said working spaces and a valve seat surface facing said working space remote from
9 said piston rod, and
10 a valve body which is urged away from said valve seat surface by a spring, said
11 valve body having a conical surface which moves toward said valve seat surface as a function of
12 dynamic pressure of said damping medium on said valve body and bearing against said valve
13 seat surface in a maximally closed position.

1 2. A piston-cylinder assembly as in claim 1 further comprising a pin having a
2 guide surface on which said valve body is guided axially, and a seal arranged between the valve
3 body and the guide surface.

1 3. A piston-cylinder assembly as in claim 1 wherein said piston has a blind
2 hole which accommodates said spring, said blind hole having a bottom from which said at least
3 one flow passage extends.

1 4. A piston-cylinder assembly as in claim 3 wherein said spring is a conical
2 coil spring having a larger diameter end with an end coil which is arranged on the bottom of the
3 blind hole, said at least one flow passage extending from radially within the end coil.

1 5. A piston-cylinder assembly as in claim 1 wherein said valve body consists
2 of plastic.

1 6. A piston-cylinder assembly as in claim 1 further comprising an axially
2 adjustable stop against which the valve body is urged by the spring.

1 7. A piston-cylinder assembly as in claim 1 wherein said valve seat surface is
2 adjustable to move axially relative to said piston.

1 8. A piston-cylinder assembly as in claim 7 comprising a valve seat ring, said
2 valve seat surface being located on said valve seat ring.

1 9. A piston-cylinder-assembly as in claim 8 wherein said valve seat ring has
2 a threaded connection to said piston.

1 10. A piston-cylinder assembly as in claim 1 further comprising a separating
2 piston arranged on said piston rod and separating the working space surrounding the piston rod
3 from an equalizing space.